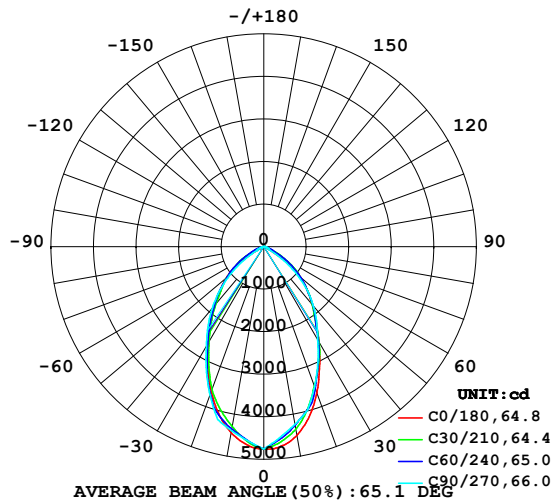


LUMINAIRE PHOTOMETRIC TEST REPORT

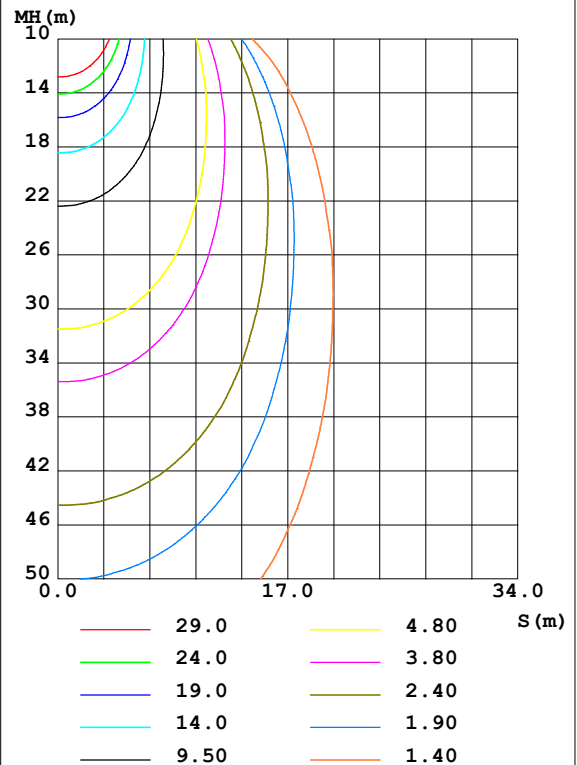
Test:U:120.02V I:0.3500A P:41.907W PF:0.9978 Freq:59.98Hz Lamp Flux:6463.81x1 lm		
NAME: LED Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:40W/5000K/60°	DIM.: 190*150mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

DATA OF LAMP		PHOTOMETRIC DATA Eff: 154.24 lm/W			
MODEL	GHSM-06-U	I _{max} (cd)	4761	S/MH(C0/180)	0.92
NOMINAL POWER(W)	40	LOR(%)	100.0	S/MH(C90/270)	0.94
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	6463.8	□ UP,DN(C0-180)	0.0,49.1
NOMINAL FLUX(lm)	6463.81	CIE CLASS	DIRECT	□ UP,DN(C180-360)	0.0,50.9
LAMPS INSIDE	1	□ up(%)	0.0	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	120	□ down(%)	100.0	CIBSE SHR MAX	1.00

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jessy
Test Date:2024-12-16

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.058m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum, lamp
10	4503	4294	4240	4210	4437	4318	4392	4396	0- 10	429.5	429.5	6.64, 6.64
20	3650	3591	3499	3466	3611	3638	3705	3763	10- 20	1121	1551	24, 24
30	2597	2564	2534	2526	2615	2629	2698	2663	20- 30	1412	2963	45.8, 45.8
40	1770	1759	1813	1755	1791	1809	1882	1809	30- 40	1355	4318	66.8, 66.8
50	1140	1135	1018	1155	1149	1161	1051	1160	40- 50	1117	5434	84.1, 84.1
60	178.8	553.8	150.8	572.2	203.6	584.3	205.6	587.6	50- 60	716.0	6150	95.2, 95.2
70	69.37	93.51	66.63	96.23	69.10	117.4	90.32	125.8	60- 70	254.5	6405	99.1, 99.1
80	10.35	11.15	0	10.46	12.02	12.83	0	15.30	70- 80	56.84	6462	100, 100
90	0.5079	0	0	0	0.4957	0	0	0	80- 90	2.015	6464	100, 100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 4915.6 lm

%lum = 76.0%

%lamp = 76.0%

Conical surface Flux(120deg): 6150.5 lm

%lum = 95.2%

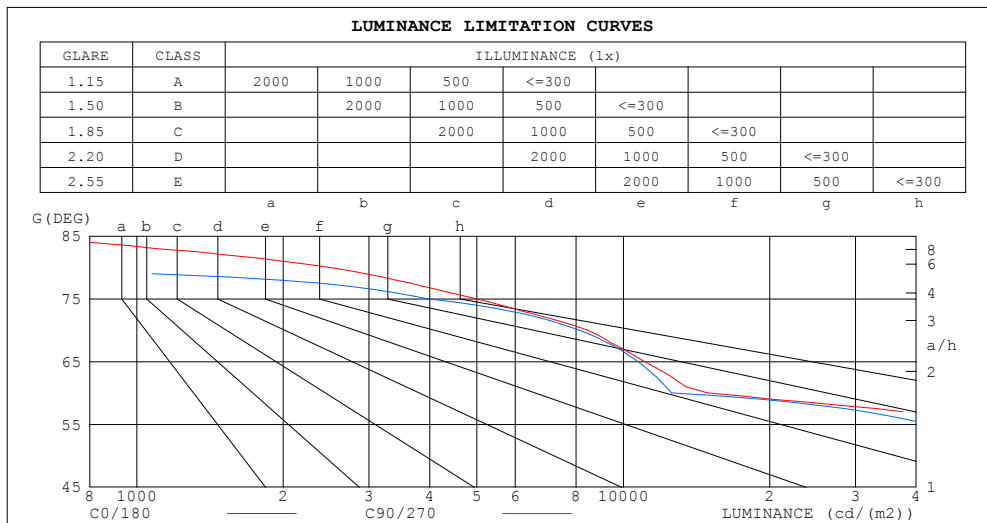
%lamp = 95.2%

H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jessy
Test Date:2024-12-16

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.058m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.02V I:0.3500A P:41.907W PF:0.9978 Freq:59.98Hz Lamp Flux:6463.81x1 lm		
NAME: LED Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:40W/5000K/60°	DIM.: 190*150mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	630	0
80	2484	0
75	4986	3958
70	8451	8117
65	11047	10718
60	14897	12563
55	55918	42479
50	73887	66015
45	85146	85603

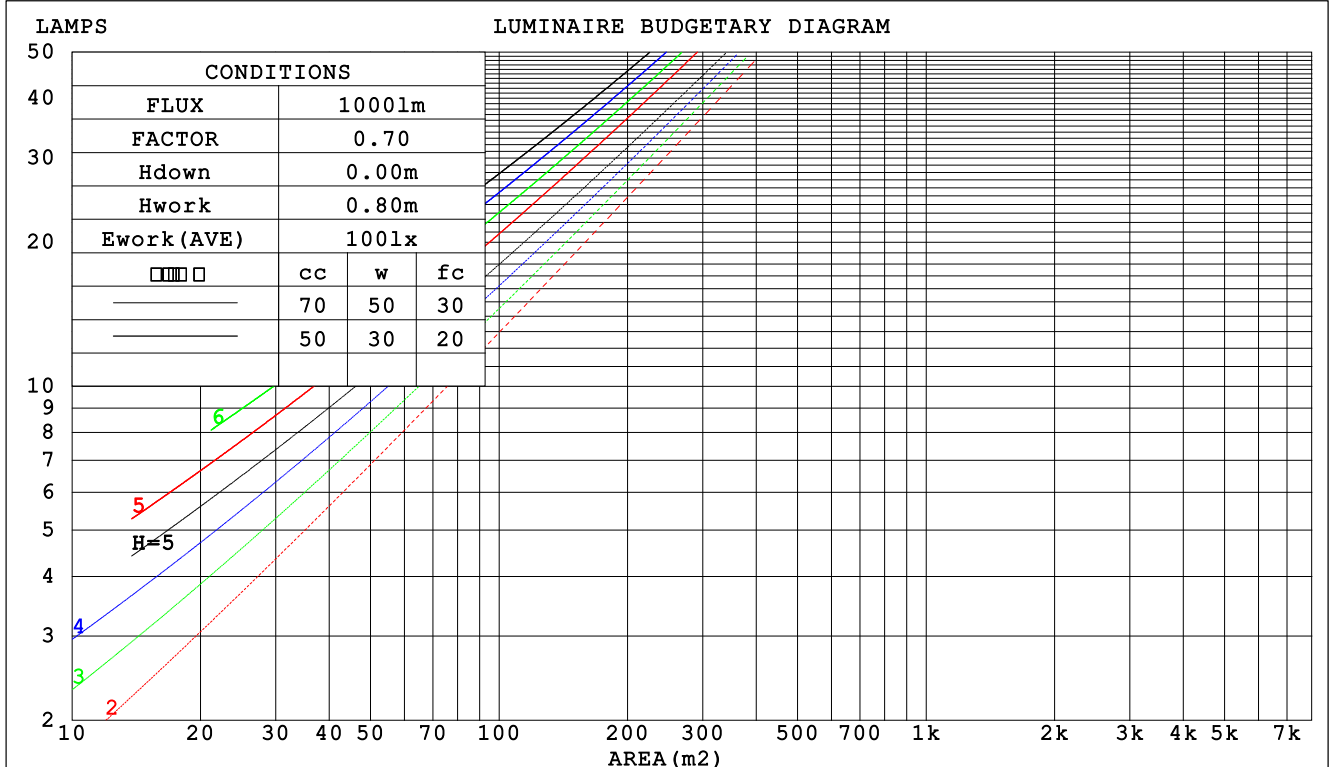
H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jessy
Test Date:2024-12-16

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.058m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.02V I:0.3500A P:41.907W PF:0.9978 Freq:59.98Hz Lamp Flux:6463.81x1 lm		
NAME: LED Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:40W/5000K/60°	DIM.: 190*150mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

□cc	80%			70%			50%			30%			10%			0
□w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
□fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															



H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jessy
Test Date:2024-12-16

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.058m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:120.02V I:0.3500A P:41.907W PF:0.9978 Freq:59.98Hz Lamp Flux:6463.81x1 lm					
NAME: LED Explosion-proof Light			TYPE:Flood Light		WEIGHT:N/A
SPEC.:40W/5000K/60°			DIM.: 190*150mm		SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.			SUR.:N/A		Shielding Angle:N/A

□cc	80%			70%			50%			30%			10%			0	
□w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
□fc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)										
0.0																	
1.0	.222	.126	.040	.215	.123	.039	.202	.116	.037	.190	.110	.035	.180	.104	.034		
2.0	.217	.119	.037	.211	.116	.036	.200	.111	.035	.190	.107	.033	.181	.102	.032		
3.0	.208	.111	.033	.203	.109	.033	.193	.105	.032	.184	.101	.031	.176	.097	.030		
4.0	.197	.103	.030	.193	.101	.030	.184	.098	.029	.177	.095	.029	.169	.092	.028		
5.0	.187	.095	.028	.183	.094	.027	.175	.091	.027	.168	.089	.026	.162	.087	.026		
6.0	.177	.089	.025	.173	.087	.025	.166	.085	.025	.160	.083	.024	.155	.081	.024		
7.0	.167	.083	.023	.164	.082	.023	.158	.080	.023	.153	.078	.023	.147	.077	.023		
8.0	.158	.077	.022	.156	.077	.022	.150	.075	.021	.145	.074	.021	.141	.072	.021		
9.0	.150	.073	.020	.148	.072	.020	.143	.071	.020	.138	.069	.020	.134	.068	.020		
10.0	.143	.068	.019	.140	.068	.019	.136	.067	.019	.132	.066	.019	.128	.065	.019		

□cc	80%			70%			50%			30%			10%			0
□w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
□fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.174	.157	.141	.149	.135	.122	.102	.093	.084	.059	.054	.049	.019	.017	.016	
2.0	.162	.132	.107	.139	.114	.093	.095	.079	.065	.055	.046	.038	.018	.015	.012	
3.0	.153	.114	.083	.131	.098	.072	.090	.068	.051	.052	.040	.030	.017	.013	.010	
4.0	.144	.100	.066	.124	.086	.057	.085	.060	.040	.049	.035	.024	.016	.011	.008	
5.0	.137	.089	.054	.117	.077	.047	.081	.054	.033	.047	.032	.020	.015	.010	.006	
6.0	.130	.080	.044	.111	.069	.039	.077	.049	.027	.045	.029	.016	.014	.009	.005	
7.0	.123	.073	.038	.106	.063	.033	.073	.044	.023	.043	.026	.014	.014	.009	.005	
8.0	.118	.067	.032	.101	.058	.028	.070	.041	.020	.041	.024	.012	.013	.008	.004	
9.0	.112	.062	.028	.097	.054	.024	.067	.038	.017	.039	.022	.010	.013	.007	.003	
10.0	.107	.058	.025	.093	.050	.022	.064	.035	.015	.037	.021	.009	.012	.007	.003	

H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jessy
Test Date:2024-12-16

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.058m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.02V I:0.3500A P:41.907W PF:0.9978 Freq:59.98Hz Lamp Flux:6463.81x1 lm										
NAME: LED Explosion-proof Light					TYPE:Flood Light			WEIGHT:N/A		
SPEC.:40W/5000K/60°					DIM.: 190*150mm			SERIAL No.:N/A		
MFR.: Grin Industrial Co., Ltd.					SUR.:N/A			Shielding Angle:N/A		
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	19.4	20.6	19.6	20.8	21.0	19.0	20.2	19.3	20.4	20.6
3H	19.3	20.4	19.5	20.6	20.8	19.1	20.2	19.3	20.4	20.6
4H	19.2	20.2	19.5	20.5	20.7	19.0	20.0	19.3	20.3	20.5
6H	19.1	20.1	19.4	20.3	20.6	18.9	19.9	19.2	20.1	20.4
8H	19.1	20.0	19.4	20.3	20.5	18.8	19.8	19.2	20.1	20.3
12H	19.0	19.9	19.3	20.2	20.5	18.8	19.7	19.1	20.0	20.3
4H 2H	19.5	20.6	19.8	20.8	21.0	19.2	20.2	19.5	20.5	20.7
3H	19.4	20.4	19.8	20.6	20.9	19.3	20.2	19.6	20.5	20.8
4H	19.4	20.2	19.7	20.5	20.8	19.3	20.1	19.6	20.4	20.7
6H	19.3	20.0	19.7	20.4	20.7	19.2	19.9	19.6	20.2	20.6
8H	19.3	19.9	19.7	20.3	20.7	19.1	19.8	19.5	20.2	20.5
12H	19.2	19.8	19.6	20.2	20.6	19.1	19.7	19.5	20.1	20.5
8H 4H	19.3	20.0	19.7	20.3	20.7	19.2	19.8	19.6	20.2	20.6
6H	19.2	19.8	19.6	20.2	20.6	19.1	19.6	19.5	20.0	20.4
8H	19.2	19.6	19.6	20.1	20.5	19.0	19.5	19.5	19.9	20.4
12H	19.1	19.5	19.6	20.0	20.4	19.0	19.4	19.4	19.8	20.3
12H 4H	19.2	19.9	19.7	20.2	20.6	19.1	19.7	19.5	20.1	20.5
6H	19.2	19.6	19.6	20.1	20.5	19.0	19.5	19.5	19.9	20.4
8H	19.1	19.5	19.6	20.0	20.4	19.0	19.4	19.5	19.8	20.3
Variations with the observer position at spacings:										
S = 1.0H	+ 0.9 / - 1.6					+ 1.0 / - 1.7				
1.5H	+ 0.4 / - 0.9					+ 0.5 / - 1.0				
2.0H	+ 1.9 / - 7.9					+ 2.4 / - 8.7				

CIE Pub.117, 6464 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 6.5$)
Area: 0.024 m²

H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jessy
Test Date:2024-12-16

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.058m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.02V I:0.3500A P:41.907W PF:0.9978 Freq:59.98Hz Lamp Flux:6463.81x1 lm		
NAME: LED Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:40W/5000K/60°	DIM.: 190*150mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

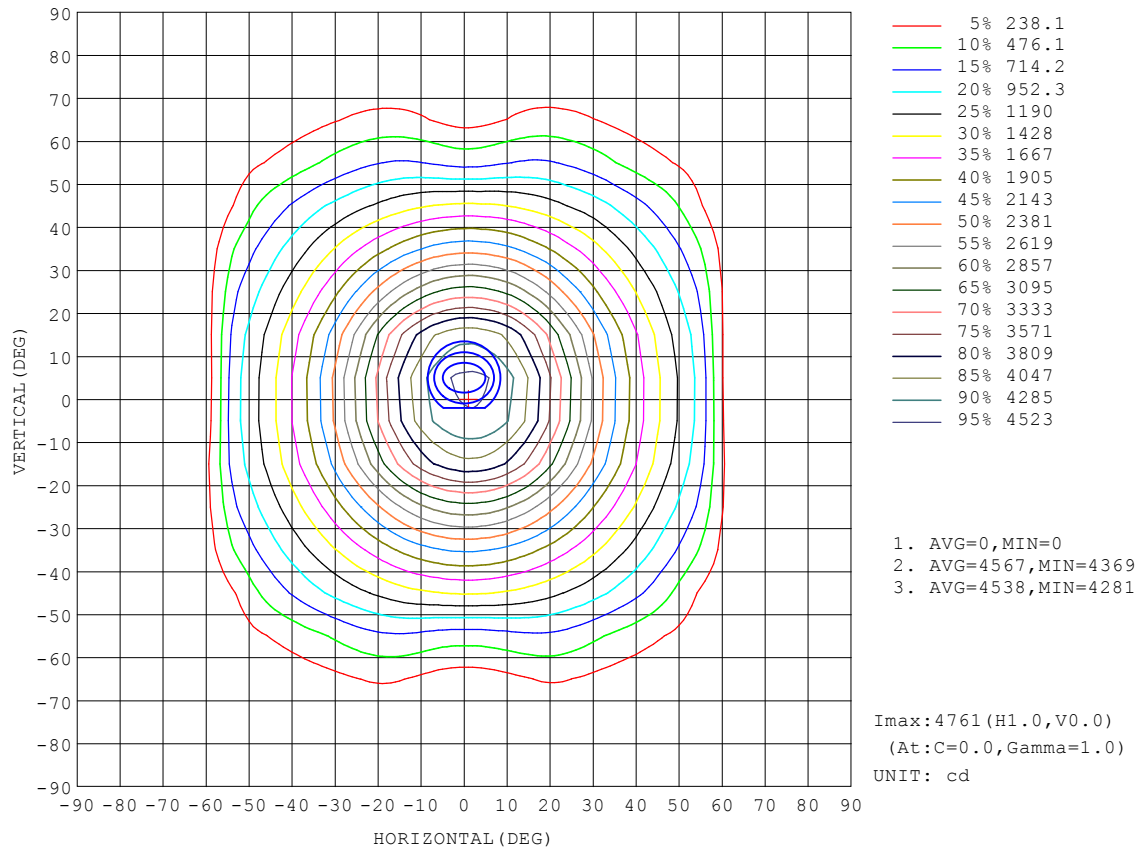
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	70	61	55	70	61	55	69	60	55	50
0.80	80	71	65	79	71	65	78	70	65	59
1.00	88	79	74	87	79	74	85	80	73	68
1.25	94	86	81	93	86	81	90	84	80	74
1.50	98	91	86	96	90	85	94	88	84	78
2.00	103	97	92	101	96	92	98	94	90	84
2.50	106	100	96	104	99	95	100	96	93	86
3.00	108	103	99	106	102	98	102	99	96	89
4.00	111	107	103	108	105	102	105	102	99	92
5.00	112	109	106	110	107	104	106	103	101	93
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

H(□) Range:-90 - 90DEG
 H(□) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Jessy
 Test Date:2024-12-16

V(B) Range:-75 - 75DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
 Humidity:65.0%
 Test Distance:7.058m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.02V I:0.3500A P:41.907W PF:0.9978 Freq:59.98Hz Lamp Flux:6463.81x1 lm		
NAME: LED Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:40W/5000K/60°	DIM.: 190*150mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

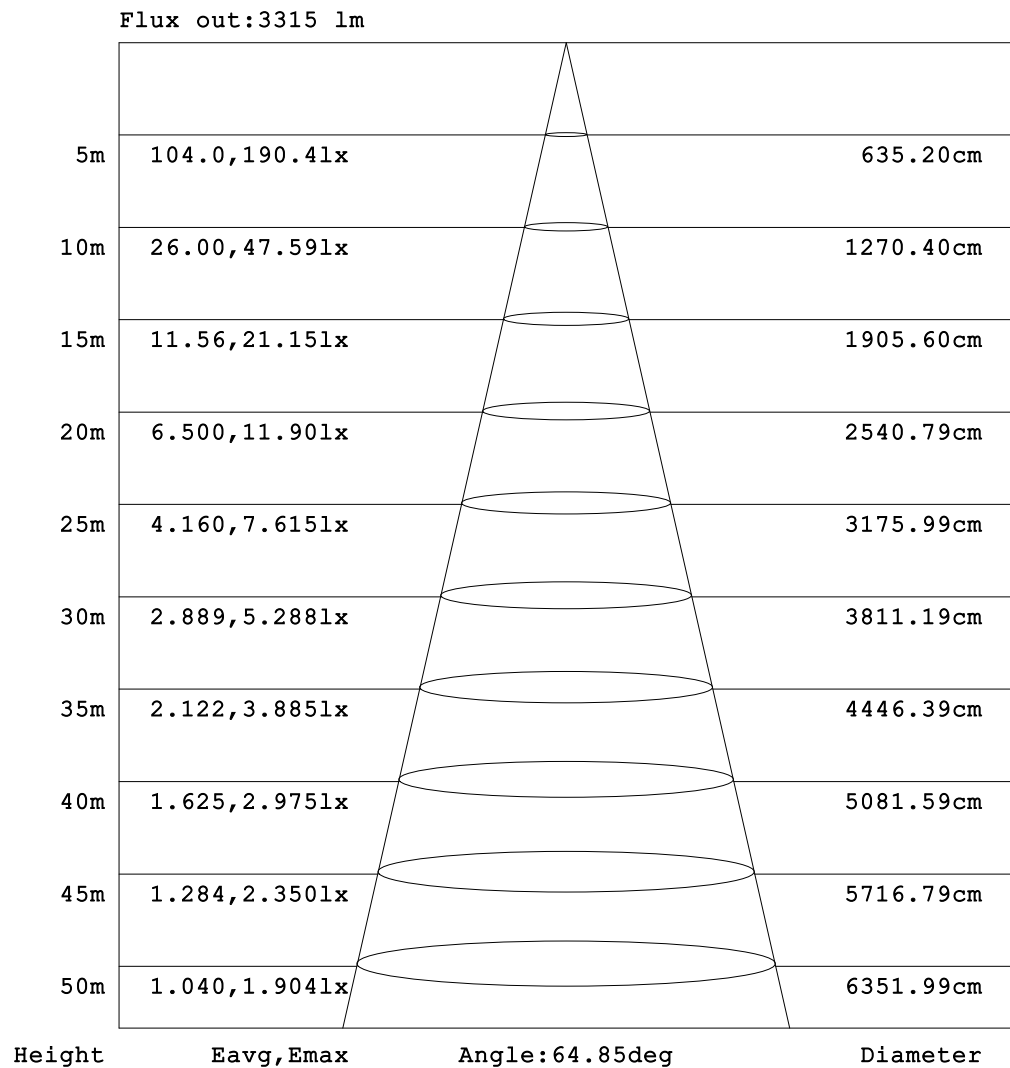


H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jessy
Test Date:2024-12-16

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.058m [K=1.0000]
Remarks:

AAI Figure

Test:U:120.02V I:0.3500A P:41.907W PF:0.9978 Freq:59.98Hz Lamp Flux:6463.81x1 lm		
NAME: LED Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:40W/5000K/60°	DIM.: 190*150mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A



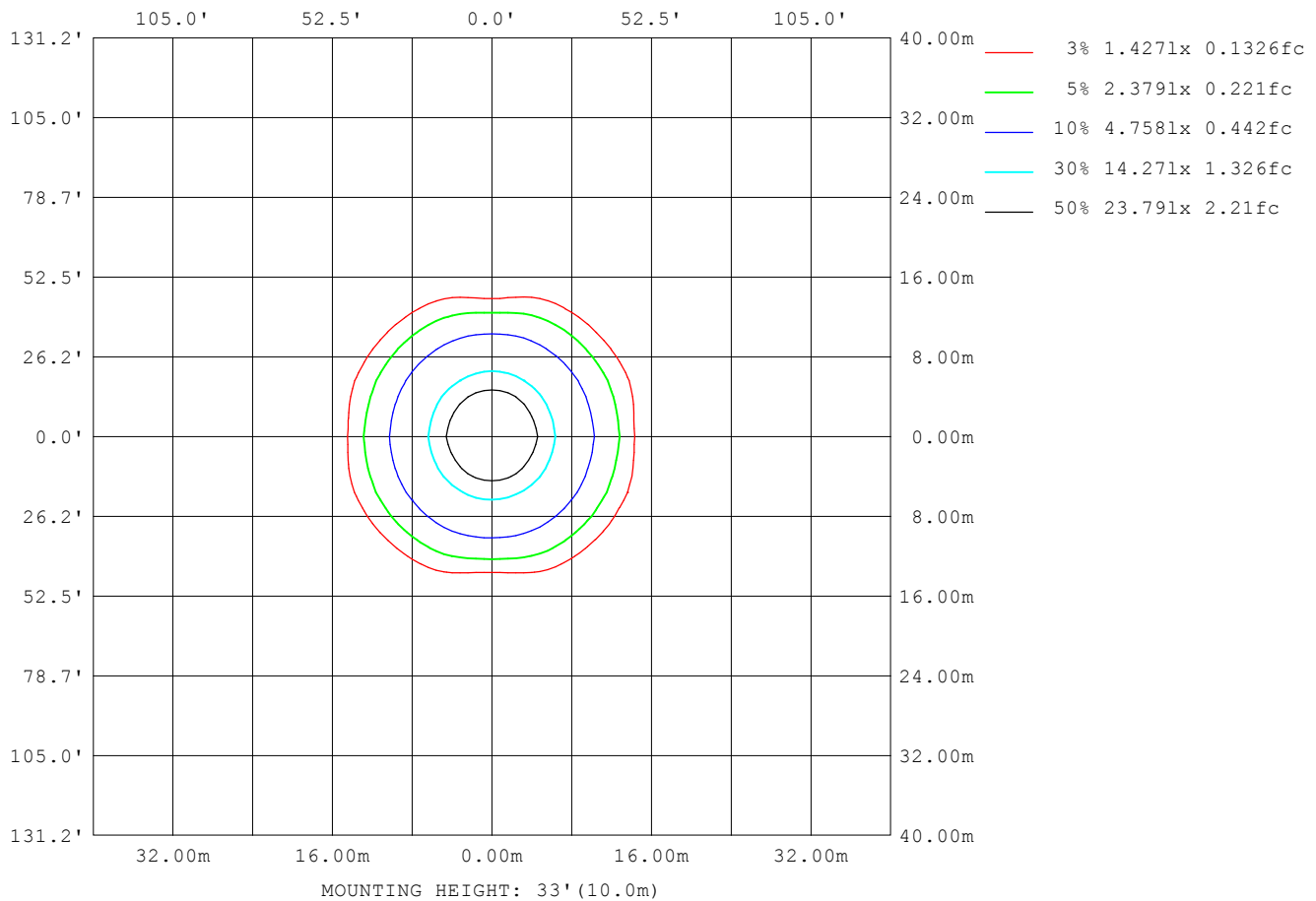
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jessy
Test Date:2024-12-16

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.058m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:120.02V I:0.3500A P:41.907W PF:0.9978 Freq:59.98Hz Lamp Flux:6463.81x1 lm		
NAME: LED Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:40W/5000K/60°	DIM.: 190*150mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A



H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jessy
Test Date:2024-12-16

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.058m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:120.02V I:0.3500A P:41.907W PF:0.9978 Freq:59.98Hz Lamp Flux:6463.81x1 lm		
NAME: LED Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:40W/5000K/60°	DIM.: 190*150mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

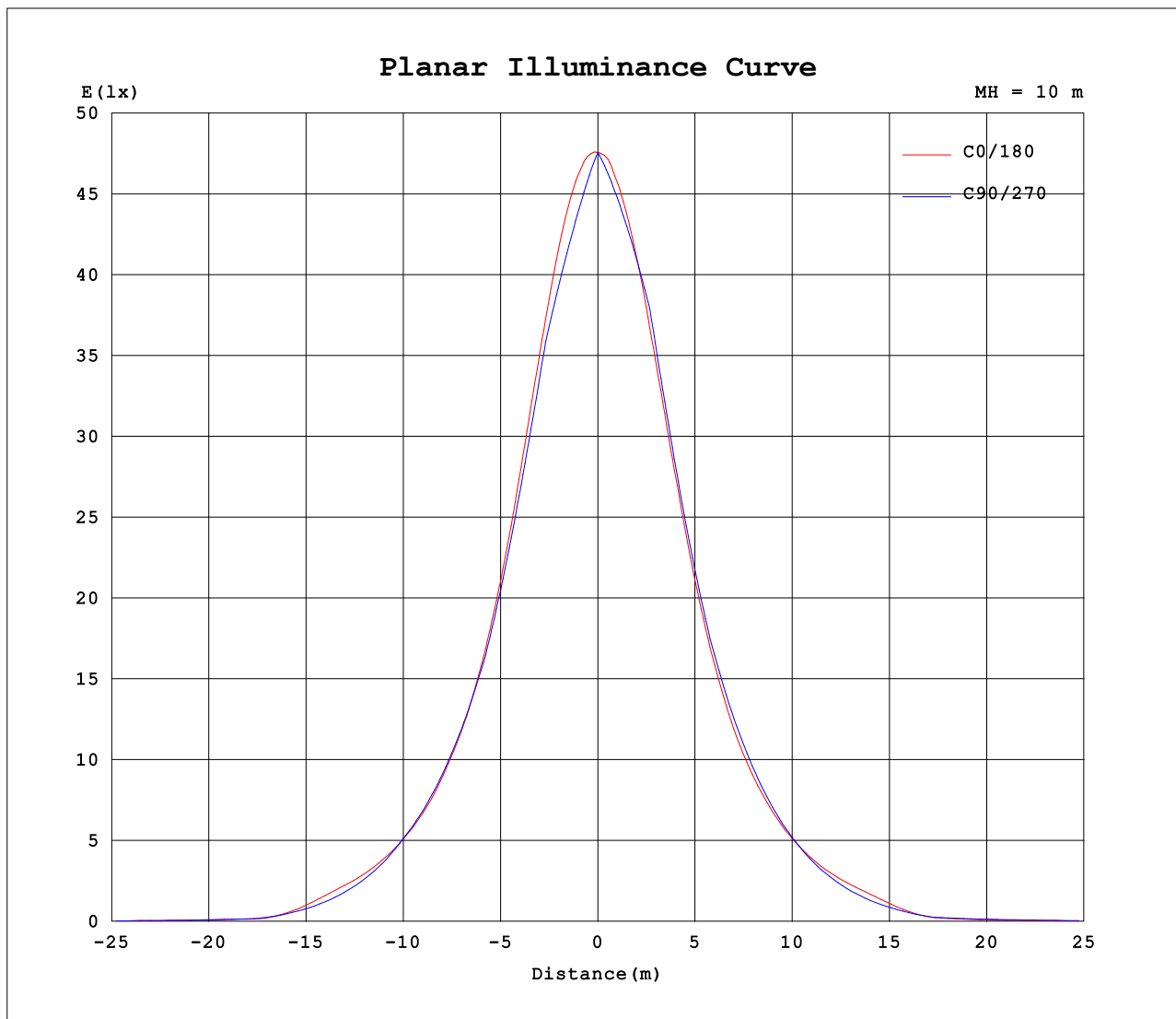
AvgL	cd/m2
L_0~180 (65) av	10960
L_0~180 (75) av	5222
L_0~180 (85) av	695
L_90~270 (65) av	12669
L_90~270 (75) av	4613
L_90~270 (85) av	0
L_45 (65) av	28491
L_45 (75) av	8619
L_45 (85) av	0

Standard: GB/T 29293-2012

H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jessy
Test Date:2024-12-16

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.058m [K=1.0000]
Remarks:

Planar Illuminance Curve



H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jessy
Test Date:2024-12-16

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.058m [K=1.0000]
Remarks:

```
V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.058m [K=1.0000]
Remarks:
```

```
V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.058m [K=1.0000]
Remarks:
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